

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A burner, comprising:

a burner body including an inlet opening at one end thereof and an outlet opening at a second end thereof;

a nozzle assembly disposed in said outlet opening of said burner body, said nozzle assembly including a generally planar disc-like member having a central hole therein and a plurality of radially spaced holes spaced around a perimeter of said central hole, and a tube member disposed in said central hole and extending axially beyond said outlet opening of said burner body; and

a bracket assembly mounted to said burner body and defining a pair of pockets extending radially from said burner body and communicating with openings disposed in said burner body.

2. (currently amended) The burner according to claim 1, wherein said tube member includes ~~a first~~ an upstream end and a ~~second~~ downstream end wherein said ~~first~~ upstream end has a larger diameter than said ~~second~~ downstream end.

3. (cancelled)

4. (cancelled)

5. (previously presented) The burner according to claim 1, wherein said bracket assembly includes a pair of radially inwardly extending lips that extend in front of said nozzle assembly.

6. (previously presented) The burner according to claim 1, wherein said bracket assembly includes a bottom bracket and a top bracket that are connected to one another and encircle said burner body.

7. (previously presented) The burner according to claim 1, wherein said bracket assembly includes a bottom bracket and a top bracket that are welded together.

8. (previously presented) The burner according to claim 1, wherein said bracket assembly includes a pair of radially extending flanges with locating slots disposed in an edge thereof for locating the burner in a burner box.

9. (currently amended) A nozzle assembly for a burner, comprising:
a generally planar disc-like member having a central hole therein and a plurality of radially spaced holes spaced around a perimeter of said central hole;
a tube member disposed in said central hole and including ~~a first~~ an upstream end and a ~~second~~ downstream end wherein said ~~first~~ upstream end has a larger diameter than said ~~second~~ downstream end; and
a bracket mounted configured for mounting to the burner, said bracket including a pair of radially inwardly extending lips that extend in front of the nozzle assembly.

10. (original) The nozzle according to claim 9, wherein said tube member is welded to said disc-like member.

11. (original) The nozzle according to claim 9, wherein said center hole in said disc-like member has a diameter that is greater than half of a diameter of said disc-like member.

12. (currently amended) A burner, comprising:

a burner body including an inlet opening at one end thereof and an outlet opening at a second end thereof;

a nozzle assembly disposed in said outlet opening of said burner body, said nozzle assembly including a generally planar disc-like member having a central hole therein and a plurality of radially spaced holes spaced around a perimeter of said central hole, and a tube member disposed in said central hole, said tube member including an upstream end and a downstream end wherein said upstream end has a larger diameter than said downstream end; and

a bracket mounted to said burner body and including a pair of radially inwardly extending lips that extend in front of said nozzle assembly.

13. (cancelled)

14. (previously presented) The burner according to claim 12, wherein said bracket is mounted to said burner body and defines a pair of pockets extending radially from said burner body and communicating with openings disposed in said burner body.

15. (cancelled)

16. (previously presented) The burner according to claim 14, wherein said bracket includes a bottom bracket and a top bracket that are connected to one another and encircle said burner body.

17. (previously presented) The burner according to claim 14, wherein said bracket includes a bottom bracket and a top bracket that are welded together.

18. (previously presented) The burner according to claim 12, wherein said bracket includes a pair of radially extending flanges with locating slots disposed in an edge thereof for locating the burner in a burner box.

19. (currently amended) A burner, comprising:

a burner body including an inlet opening at one end thereof and an outlet opening at a second end thereof;

a nozzle assembly disposed in said outlet opening of said burner body, said nozzle assembly including a generally planar disc-like member having a central hole therein and a plurality of radially spaced holes spaced around a perimeter of said central hole, and a tube member disposed in said central hole; and

a mounting bracket assembly mounted to said burner body and defining a pair of pockets extending radially from said burner body and communicating with openings disposed in said burner body, said mounting bracket assembly including a top bracket and a bottom bracket that encircle said burner body.

20. (currently amended) A method of tuning a burner for use in different applications, comprising the steps of:

providing an elongated burner body having an inlet opening and an outlet opening;

mounting a nozzle assembly in said outlet opening of said elongated burner body, said nozzle assembly including a generally planar disc-like member having a central hole therein and a plurality of radially spaced holes spaced around a perimeter of said central hole, and a tube member disposed in said central hole, said tube member being adjustable and positioned to extend axially from a front and rear surface of said disc-like member such that an axial position thereof is predetermined based upon the burner application; and

mounting a top and a bottom bracket to said burner body.

21. (cancelled)

22. (previously presented) The method of claim 20, wherein said top and bottom brackets define a pair of pockets therebetween extending radially from said burner body and communicating with side openings in said burner body.

23. (currently amended) A burner, comprising:

a burner body including an inlet opening at one end thereof and an outlet opening at a second end thereof;

a nozzle assembly disposed in said outlet opening of said burner body, said nozzle assembly including a generally planar disc-like member having a central hole therein and a plurality of radially spaced holes spaced around a perimeter of said central hole, and a tube member disposed in said central hole and extending axially beyond said outlet opening of said burner body; and

a bracket assembly mounted to said burner body, said bracket assembly including a pair of radially extending flanges with locating slots disposed in an edge thereof for locating the burner in a burner box.

24. (currently amended) A burner, comprising:

a burner body including an inlet opening at one end thereof and an outlet opening at a second end thereof;

a nozzle assembly disposed in said outlet opening of said burner body, said nozzle assembly including a generally planar disc-like member having a central hole therein and a plurality of radially spaced holes spaced around a perimeter of said central hole, and a tube member disposed in said central hole, said tube member including an upstream end and a downstream end wherein said upstream end has a larger diameter than said downstream end; and

a bracket assembly mounted to said burner body, said bracket assembly including a pair of radially extending flanges with locating slots disposed in an edge thereof for locating the burner in a burner box.

25. (currently amended) A nozzle assembly for a burner, comprising:

- a generally planar disc-like member having a central hole therein and a plurality of radially spaced holes spaced around a perimeter of said central hole; and
- a tube member disposed in said central hole and including a first end and a second end wherein said first end has a larger diameter than said second end; and
- a bracket assembly configured for mounting to the burner, said bracket assembly including a pair of radially extending flanges with locating slots disposed in an edge thereof.